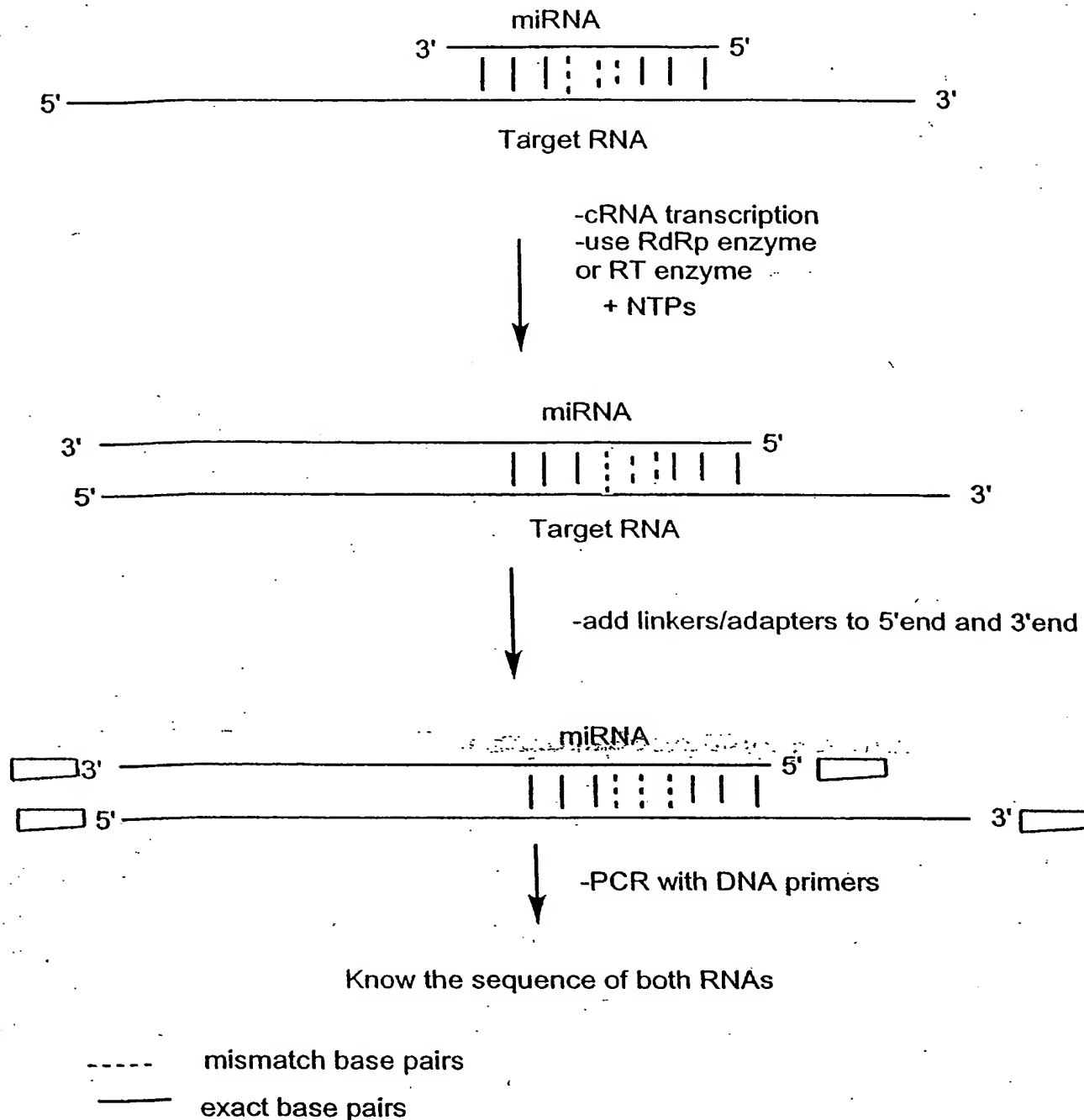


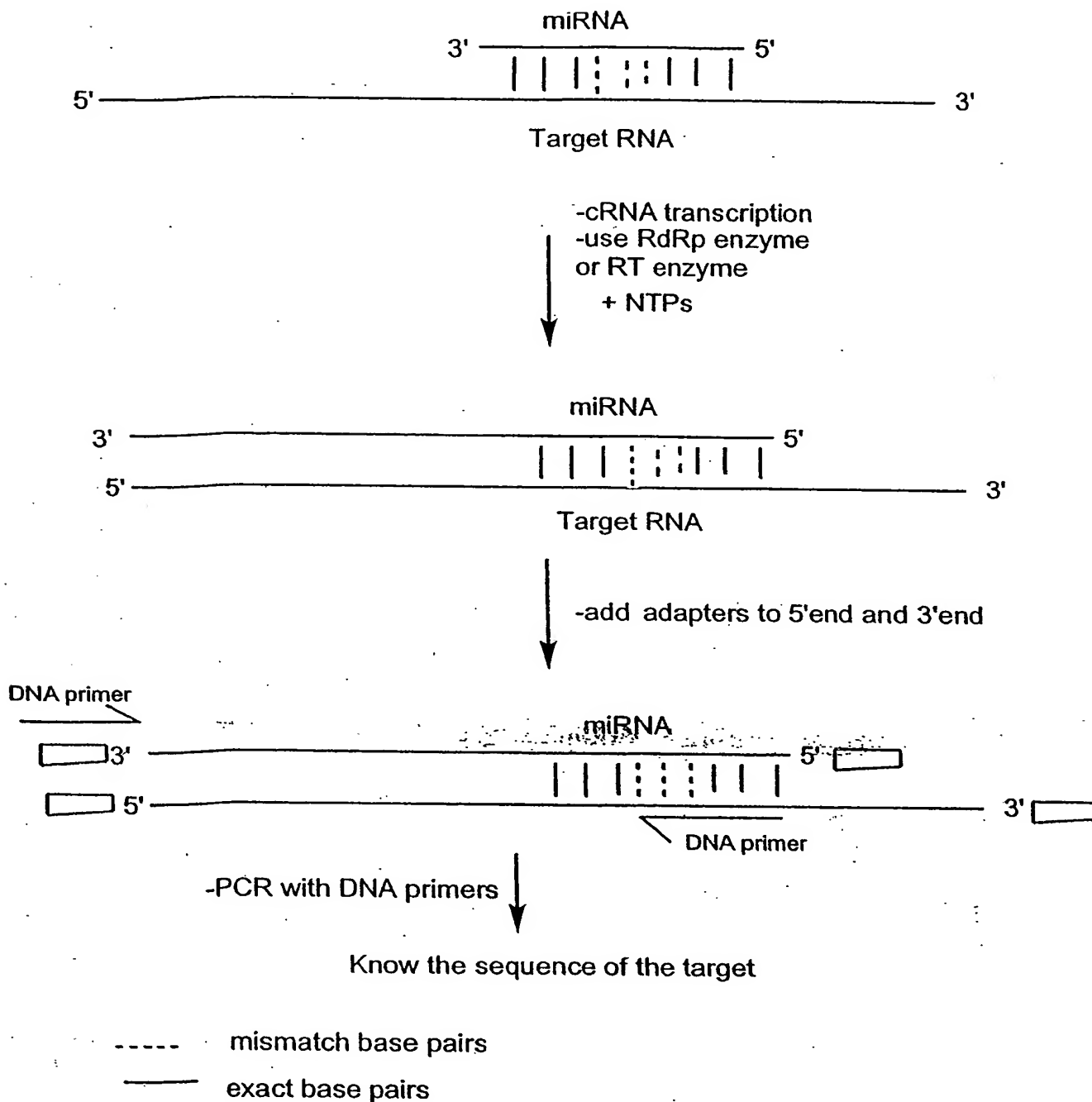
## Figure 1A

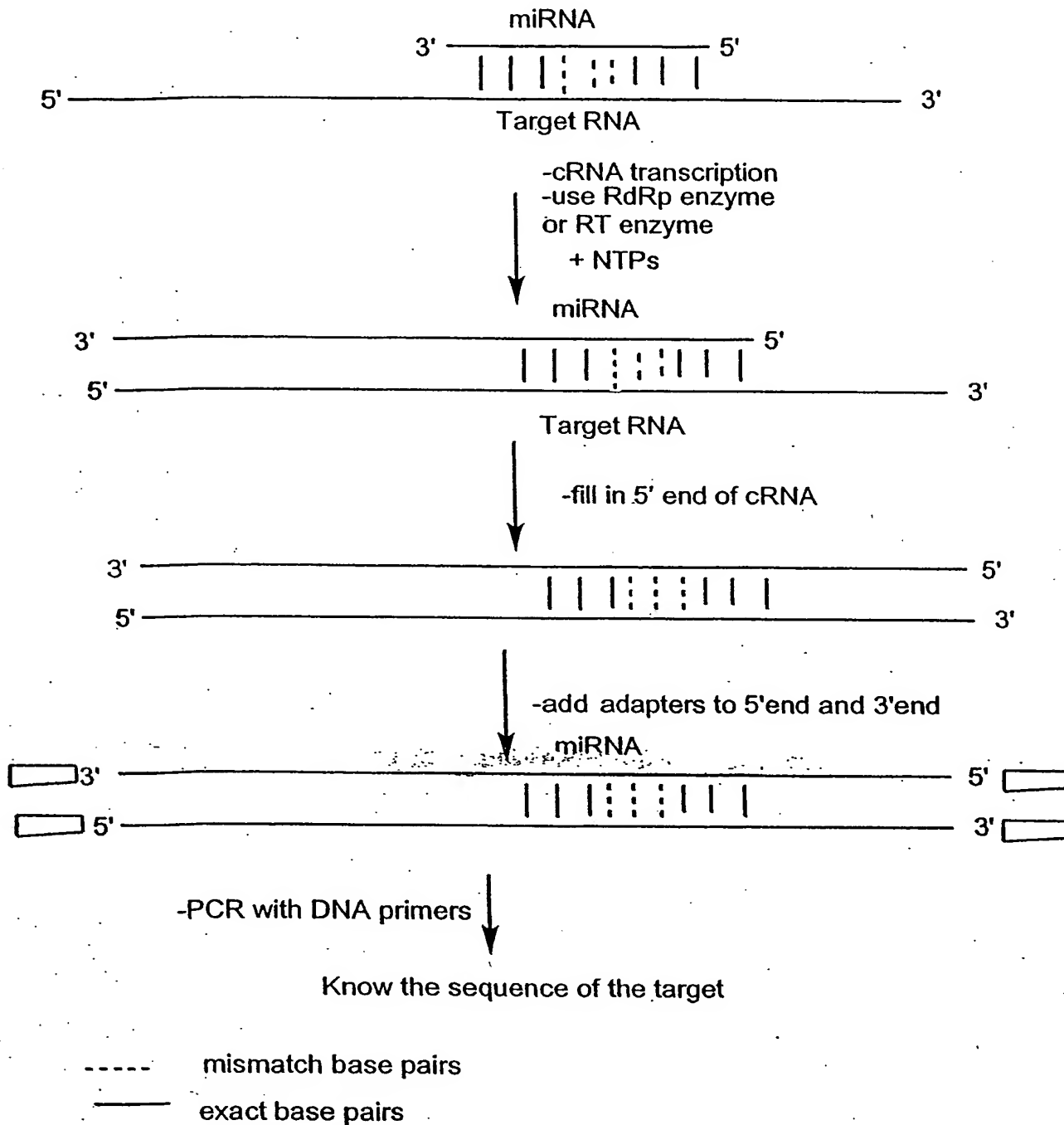
Identification of miRNAs and their targets  
when their interactions are very stable



## Figure 1B

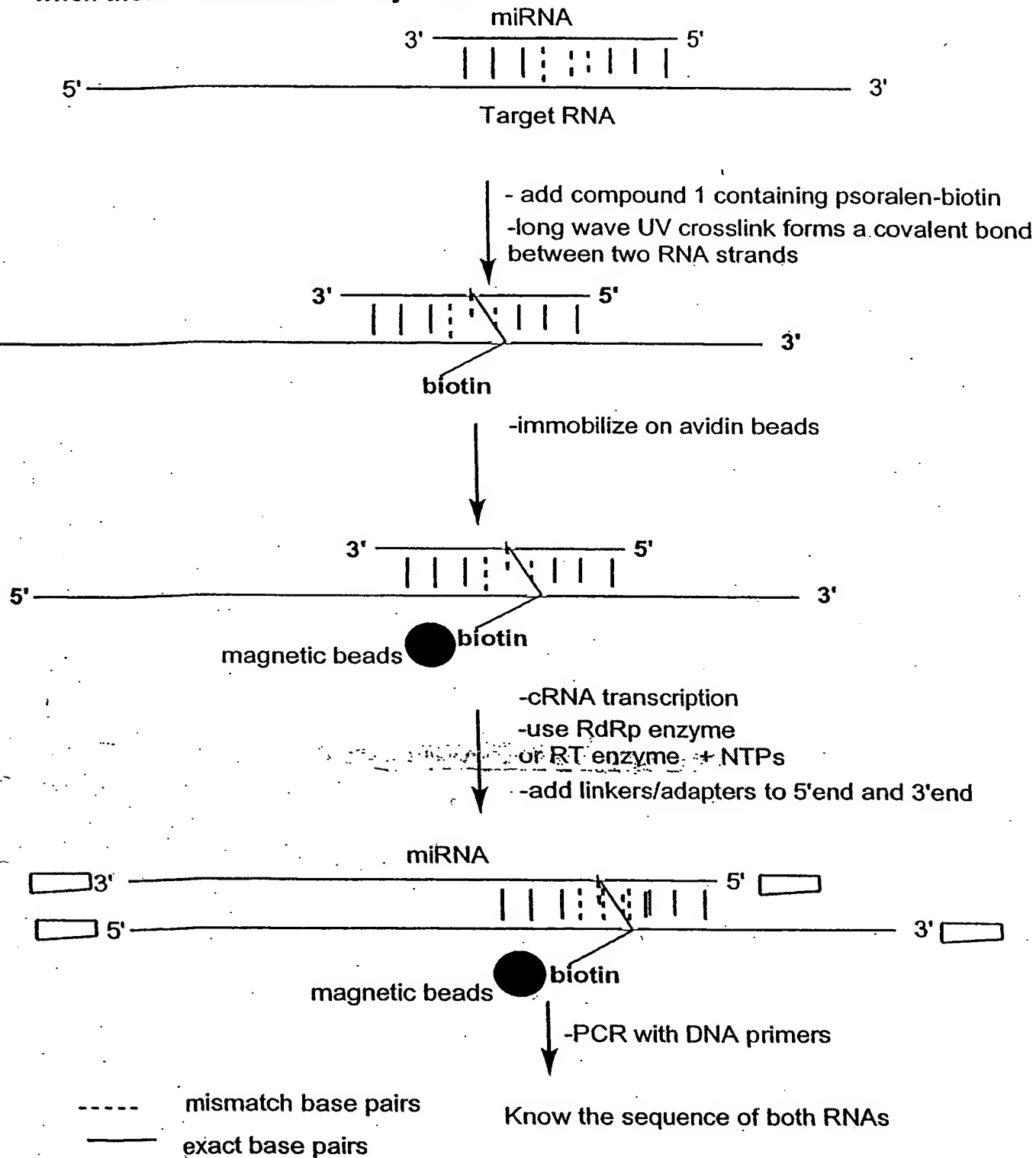
Identification of miRNA targets, when  
the sequence of the miRNA is known, and the interaction is stable



**Figure 1C****Identification of miRNAs and targets  
when the interaction is stable**

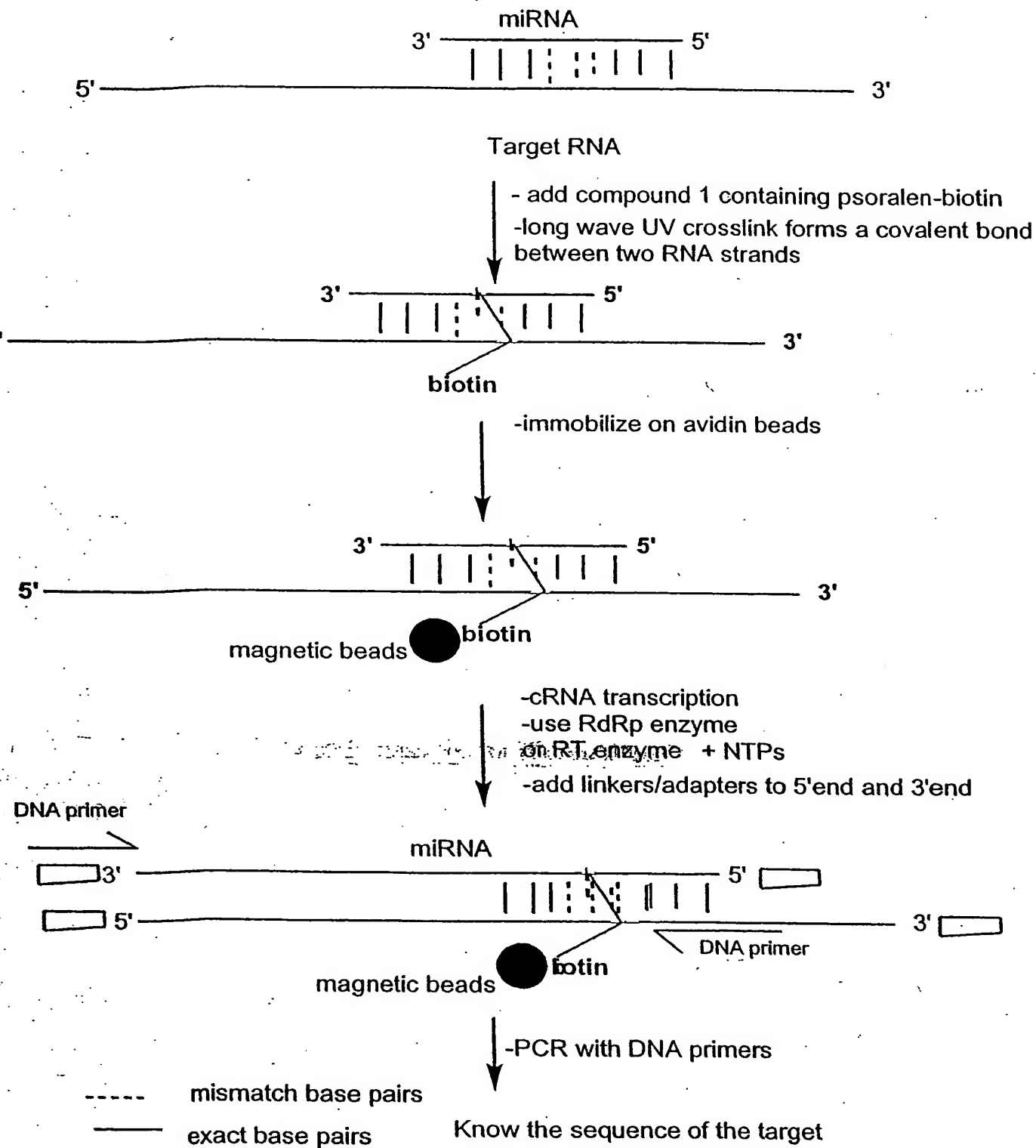
## Figure 2A

Identification of miRNAs and their targets  
when their interactions are dynamic

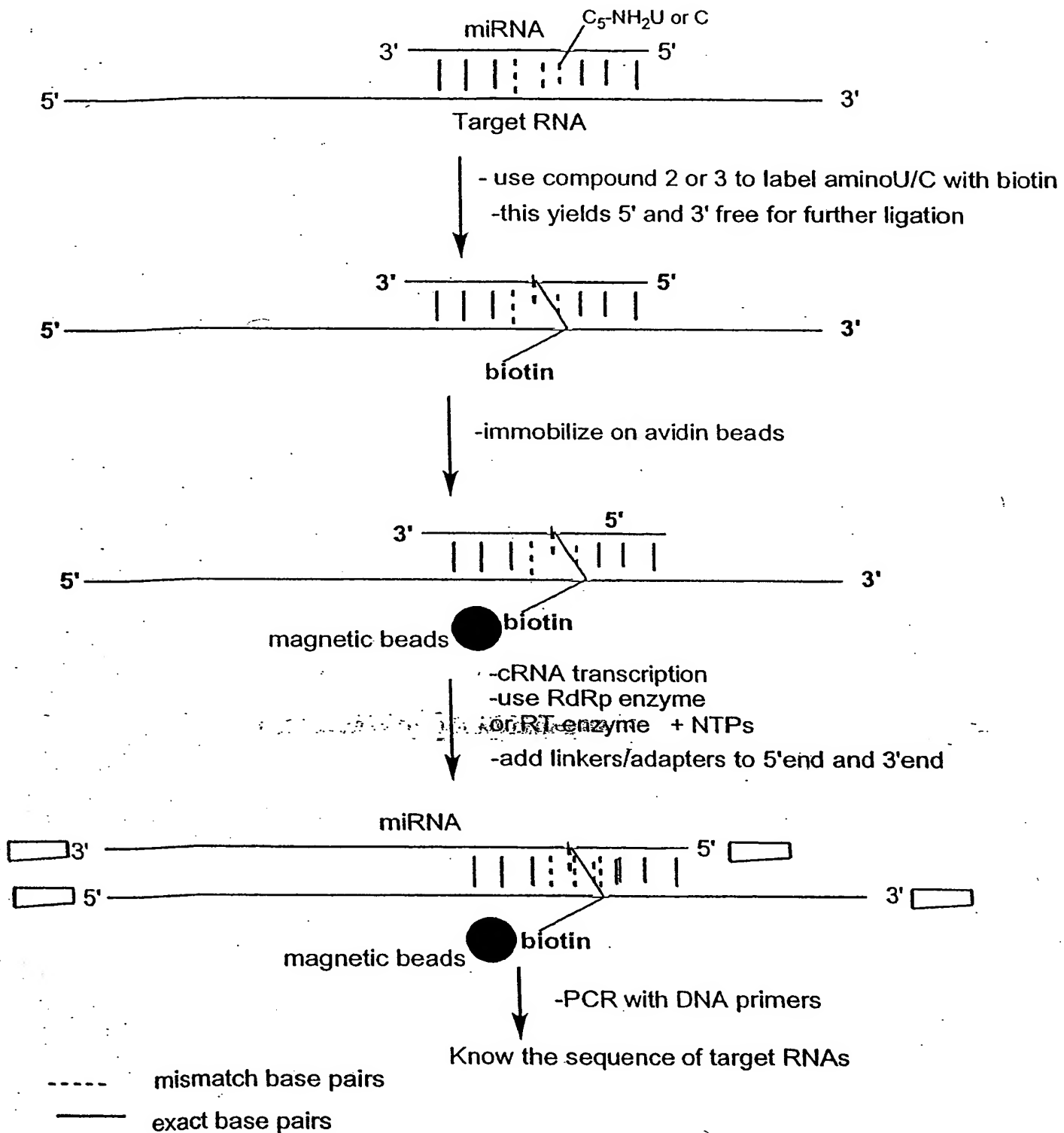


**Figure 2B**

**Identification of miRNA targets, when the sequence of the miRNA is known, and the interaction is dynamic**

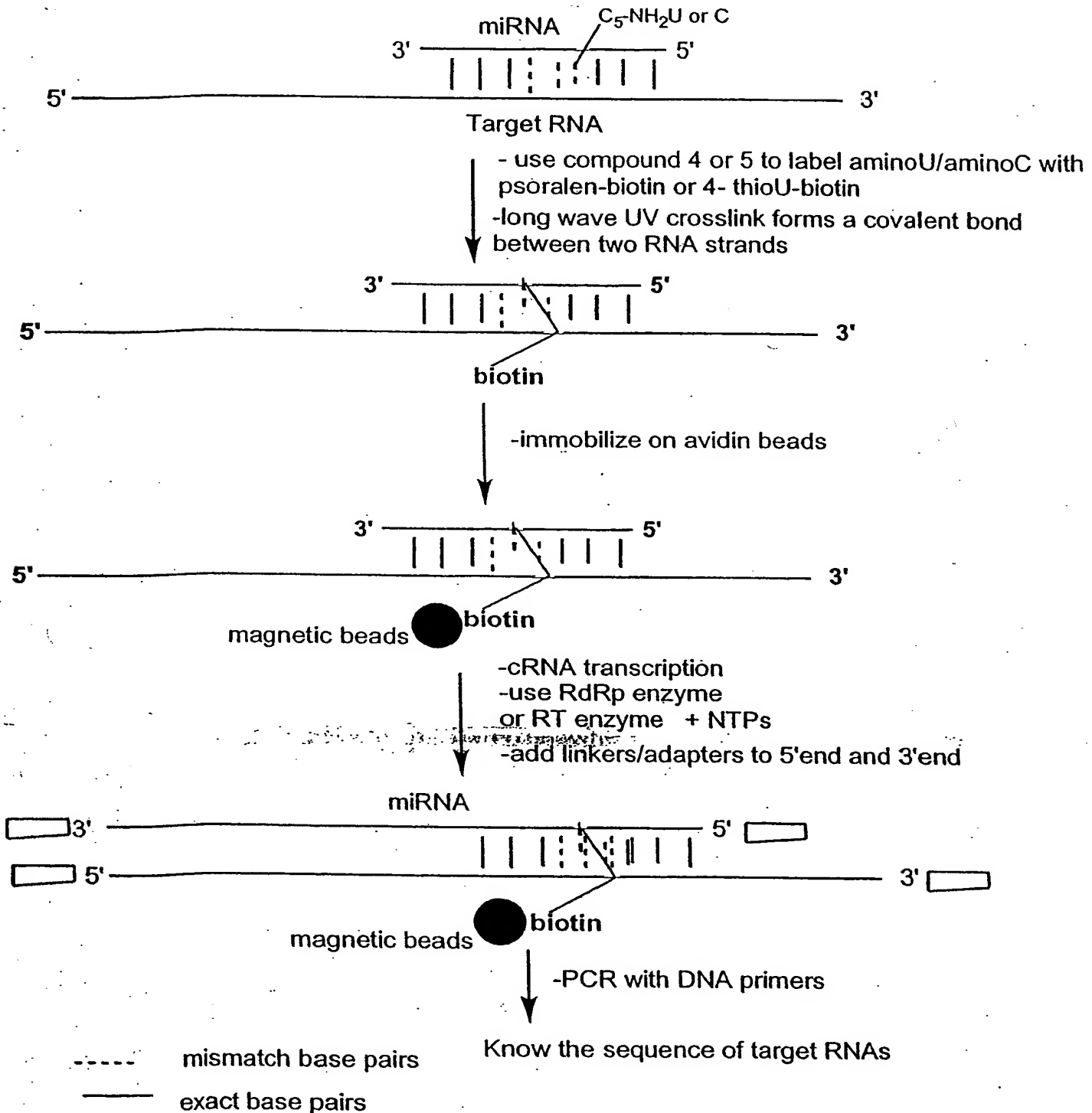


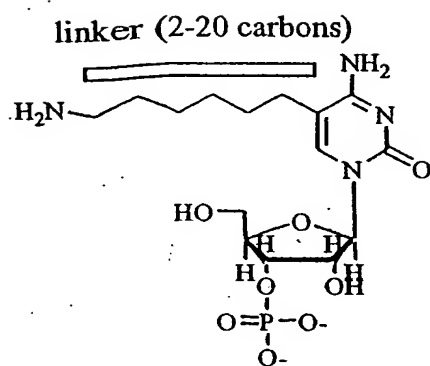
**Figure 3**  
**Identification of miRNAs targets when the miRNA sequence is known and their interactions are stable**



**Figure 4**

**Identification of miRNAs targets when the miRNA sequence is known and their interactions are dynamic**

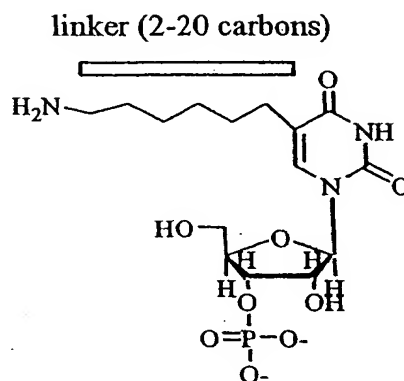




## AminoC

### Aminohexyl-C5-Cytosine

Figure 5A



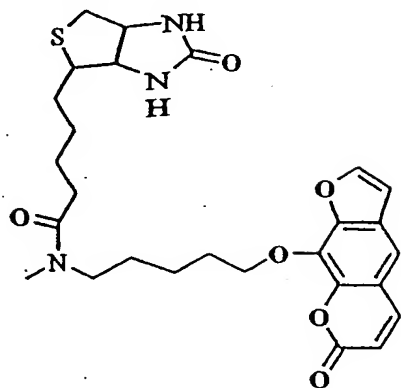
**AminoU**

### Aminohexyl-C5-uridine

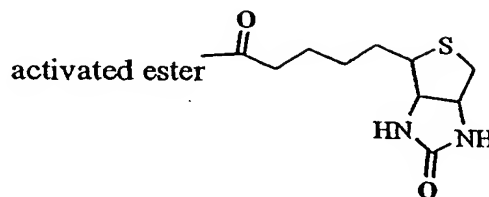
Figure 5B



for immobilization



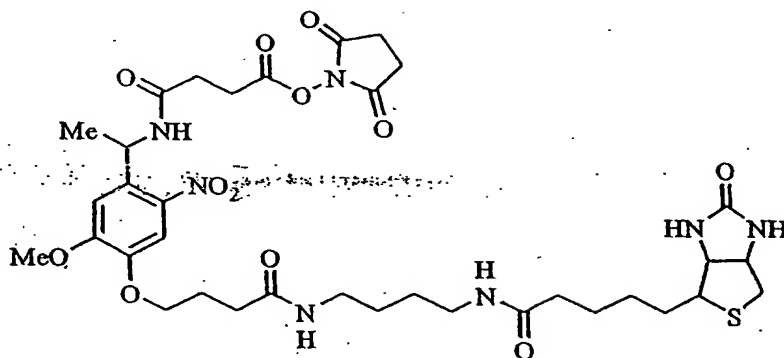
for photocrosslinking

**Compound 1**Bifunctional biotin-aminopentyl  
8-hydroxypsoralen**Figure 6A**

for immobilization

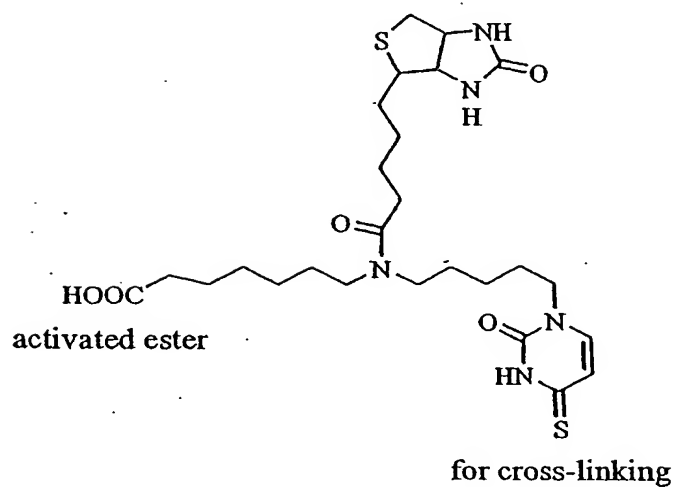
**Compound 2**

NHS activated ester of biotin butanoic acid

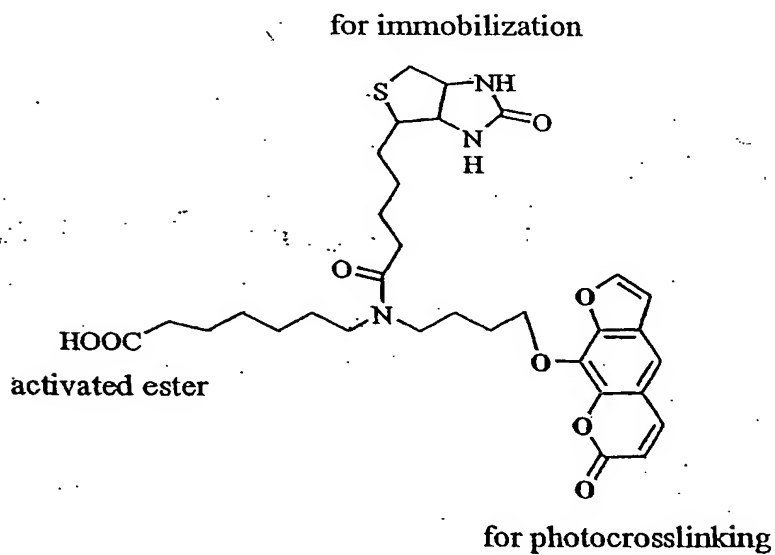
**Figure 6B****Compound 3**

photocleavable biotin

**Figure 6C**

**Compound 4**

an activated ester of hexanoic acid linked with a biotin and a 4-thio-uracil

**Figure 7A****Compound 5**

an activated ester of hexanoic acid linked with a biotin and an 8-hydroxy-psoralen

**Figure 7B**

Figure 8A

Identification of miRNAs when their interactions are stable

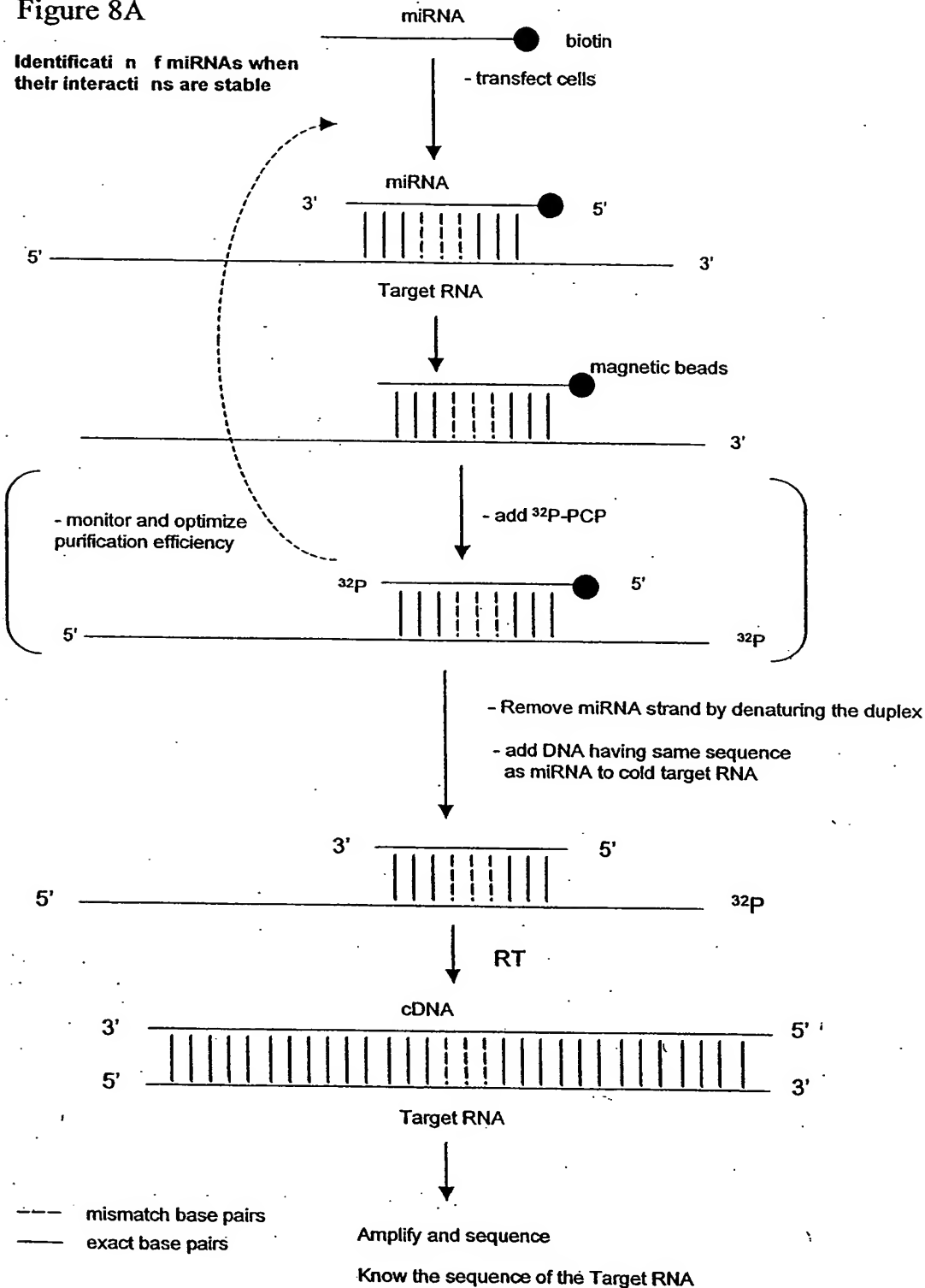
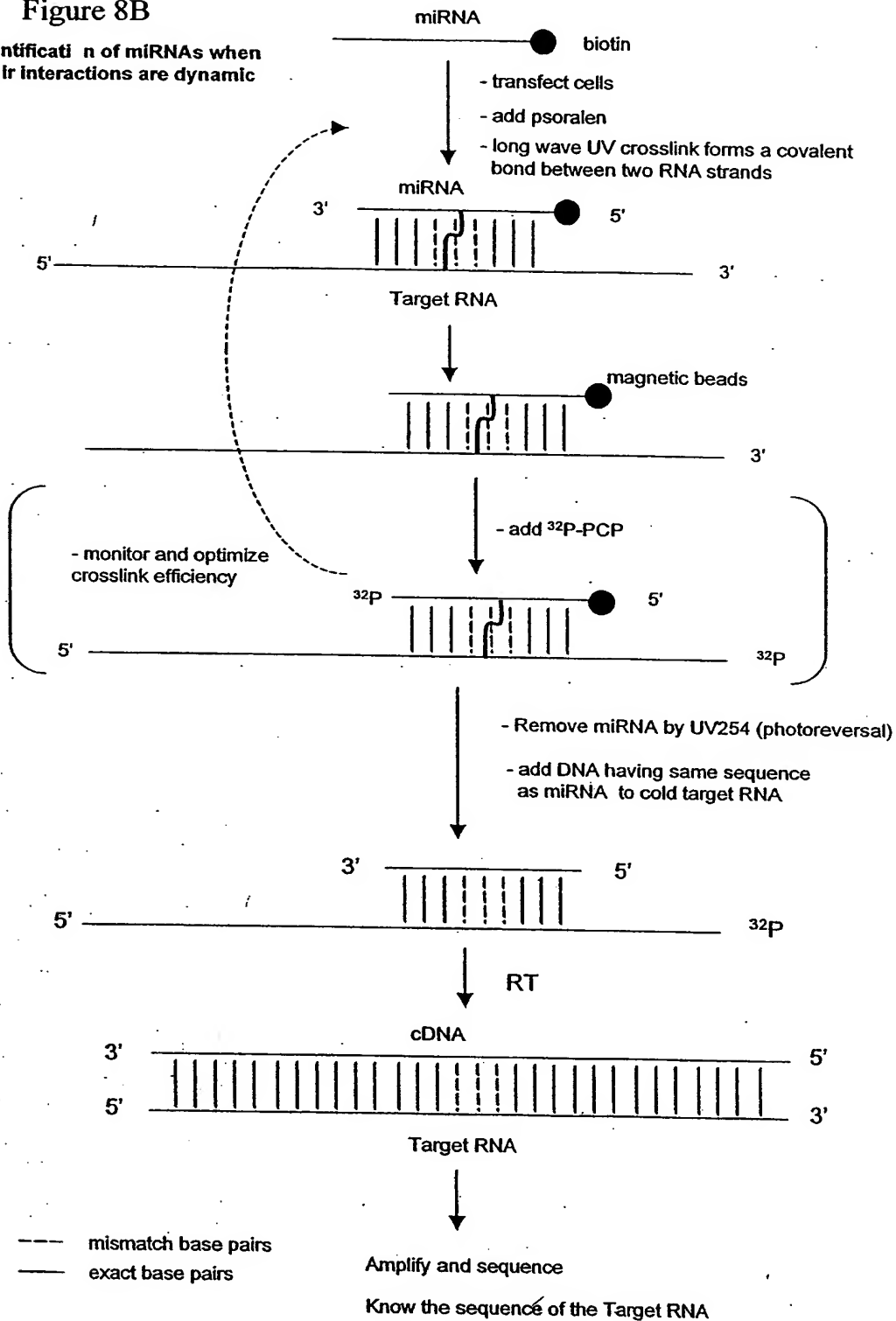


Figure 8B

Identification of miRNAs when  
their interactions are dynamic



**Figure 8C**

**Identification of miRNAs when  
 their interactions are dynamic**

**X = aminoU/aminoC labeled with  
 psoralen or other crosslinkers**

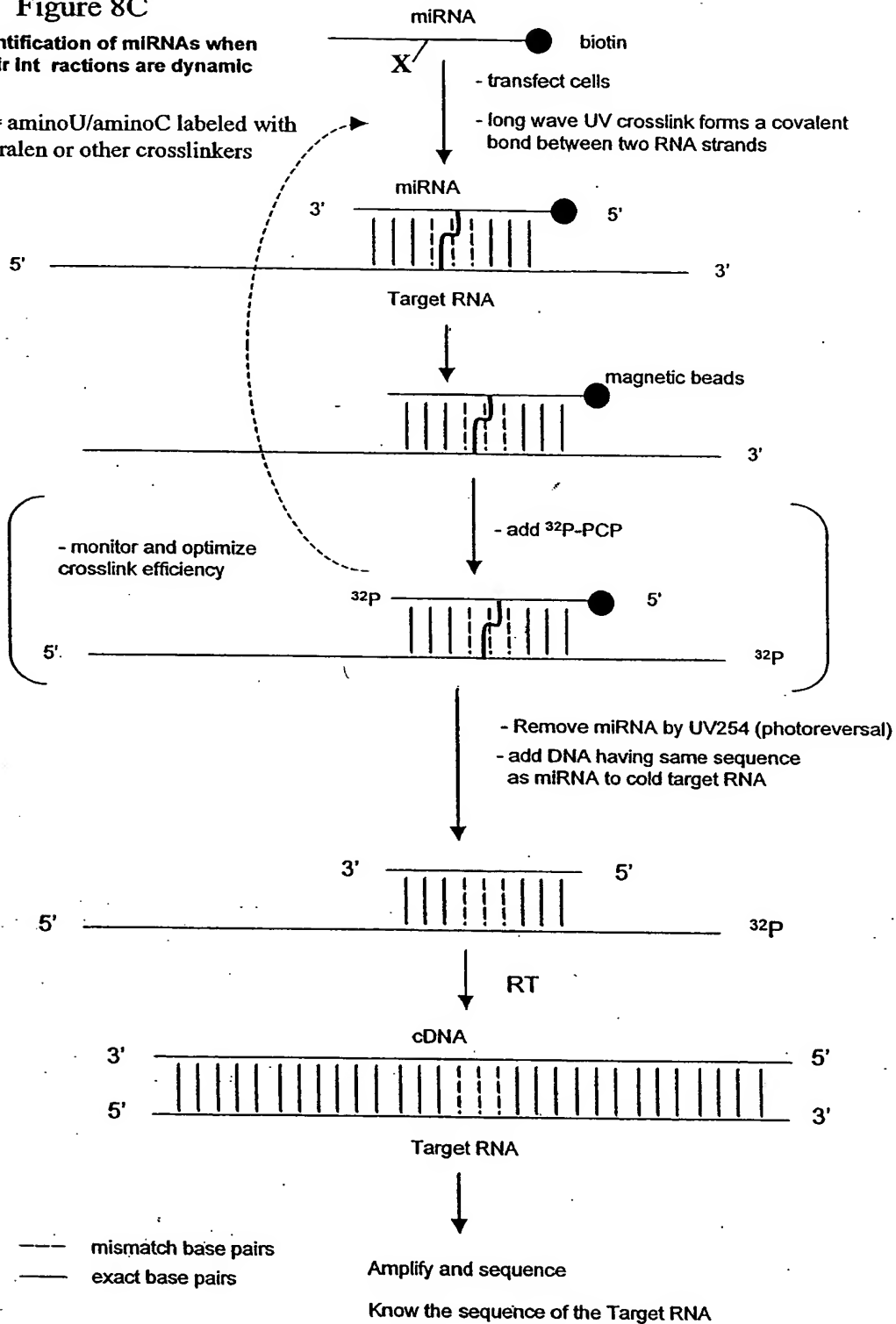


Figure 8D

Identification of miRNAs with  
 their interactions are dynamic

Y = 4-thioU/T or 6-thioG

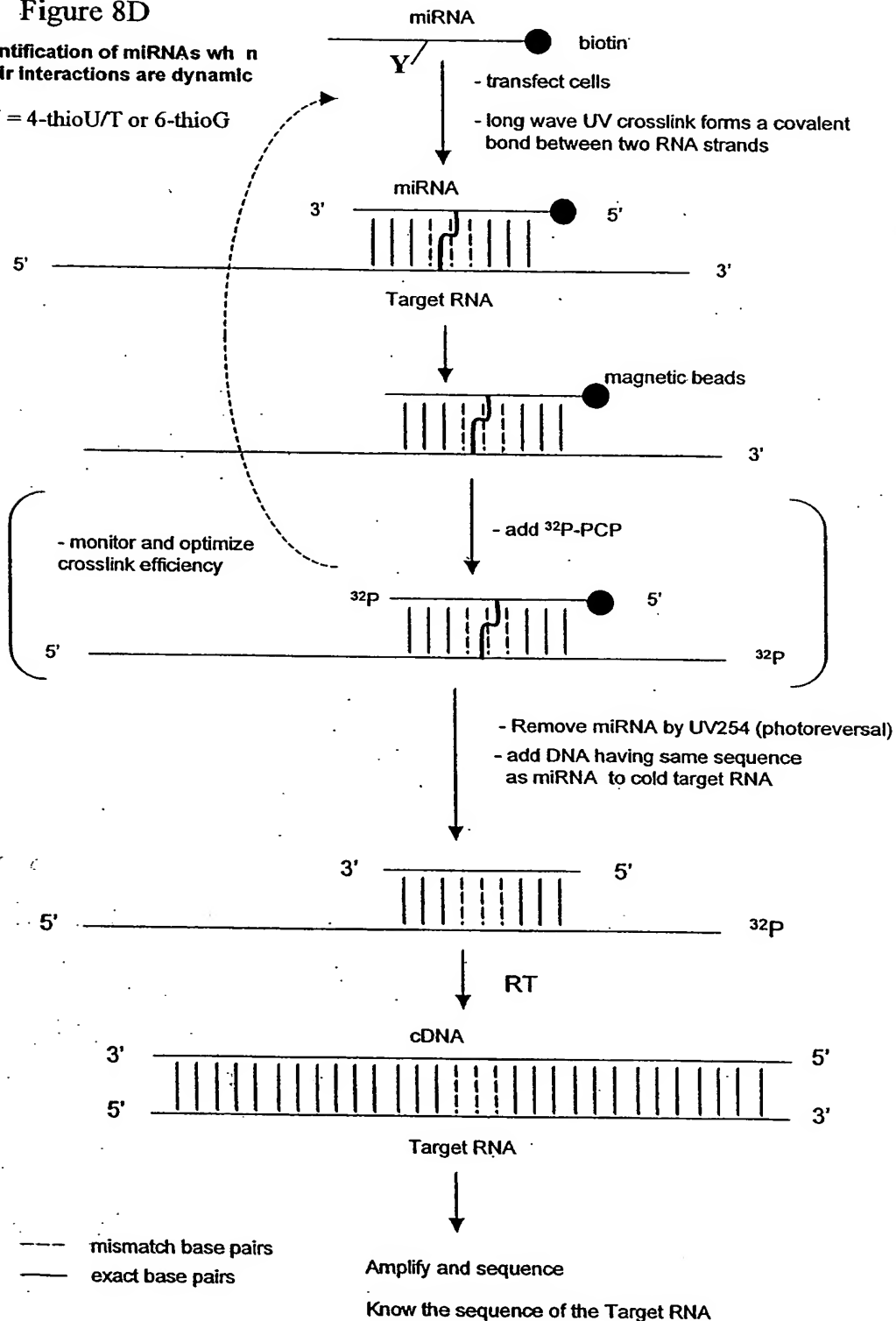


Figure 8E

**Identification of miRNAs when  
their interactions are dynamic**

A = 3'-amino group that can be modified with  
Psoralen or other crosslinkers. This will avoid any  
Structural perturbations by inner modifications  
Outlined in Fig 8B-D.

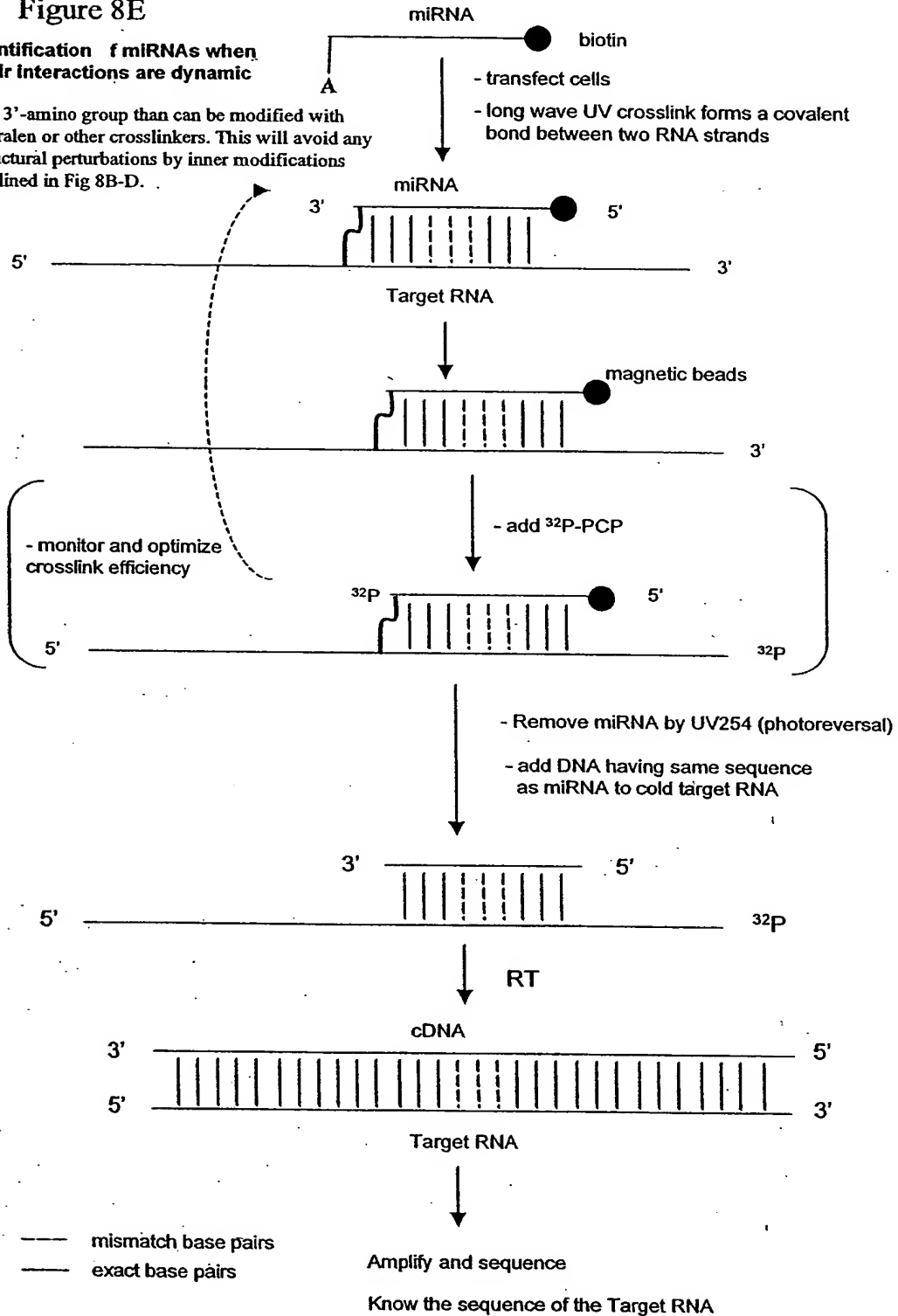


Figure 8F

**Identification of miRNAs when their interactions are dynamic**

A = 5'-amino group that can be modified with Psoralen or other crosslinkers. This will give an alternative route to avoid any problems by 3'-end biotin (if there are any). Also, 5'-crosslinkers may stabilize the interactions.

